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Printing unit of a Printing Machine

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### **New Patent Claims**

1. Printing unit (3) of a printing machine, preferably a rotary printing machine, with at least one ink transfer roller (27, 29)
  - whereby the first end of the ink transfer roller (27, 29) is supported rotatably on a first bearing block,
  - whereby the second end of the ink transfer roller (27, 29) is supported by prop bearing (7, 9) connected rotatably with a second bearing block (4, 5), whereby the prop bearing (7, 9) can be released from the ink transfer roller (27, 29) and the second bearing block (4) is displaceable relative to the ink transfer roller (27, 29) and relative to the first bearing block, so that the second end of the ink transfer roller (27, 29) is freely accessible, and
  - whereby each bearing block (4, 5) is associated with a blade chamber holder (16), which carry at least one ink chamber blade (31), which (31) is adjustable on the ink transfer roller (27, 29),
  - whereby the blade chamber holders (16) are at rest with respect to the first bearing block during the displacement of the second bearing block (4, 5)**characterized in that**

the blade chamber holder (16) associated with the second bearing block (4, 5) is permanently supported by support elements (18, 28) on the second bearing block (4, 5).

2. Printing unit according to Claim 1  
**characterized in that**  
the supporting elements comprise of at least a linear guide (18), which is arranged on the blade chamber holder (16) in such as fashion that the second bearing block (4, 5) is displaceable relative to the blade chamber holder (16).
3. Printing unit according to one of the preceding claims  
**characterized in that**  
the supporting elements are comprised of at least one track (18) fixed on the blade chamber holder (16) and at least one guide wagon (28) fastened on the bearing block (4) enclosing the track.
4. Printing unit according to one of the preceding claims  
**characterized in that**  
the blade chamber holder (16) is connected wit the printing unit frame (2) in each positions of the bearing block (4), which is not a printing position.
5. Printing unit according to one of the preceding claims  
**characterized in that**  
a stop bolts (19) is displaceably supported along its axis on the blade chamber holder (16), which can be connected at one of its end position with the bearing block (4) and with its other end position with the printing unit frame (2).
6. Printing unit according to claim 5  
**characterized in that**

the stop bolts (19) can be fastened in each of these end positions with the help of a ball of a elastic printing unit, which is mounted on the blade chamber holder (16), whereby the ball acts on one of the grooves (40) made in the stop bolt foot (19).

7. Printing unit according to claim 5 or 6  
**characterized in that**  
in the printing position, a jut (39) can be clamped on a stopper plate (30) fastened on the bearing block (4) between the stop bolt (19) and a stopper (23).
8. Printing unit according to one of the claims 5 to 7  
**characterized in that**  
the jut (39) and the stop bolt (19) are comprised of slanting bevels running parallel on the mutually facing sides.
9. Printing unit according to one of the claims 5 to 8  
**characterized in that**  
for connection of the blade chamber holder (16) with the printing unit frame (2) a support bolt (19) can be fastened in a receiver (26) fastened on the printing unit frame (2).
10. Printing unit according to one of the claims 5 to 9  
**characterized in that**  
on the stop bolts (19) act the means for the displacement (32, 33, 34, 20).
11. Printing unit according to claim 10  
**characterized in that**  
the means for displacement is comprised of a drive unit (32) and a means for transmission of the driving force (33, 34, 20).

12. Printing unit according to claim 11  
**characterized in that**  
the drive is comprised of a piston cylinder unit (32).
13. Printing unit according to claim 11 or 12  
**characterized in that**  
the means for transmission of the driving force is comprised of a receiver (34),  
which encloses a pin (20) fastened on the stop bolts (19) in the printing position  
of the bearing block (4).